

The Influence of Mass and Heat Transfer Processes
on the Ethylene Oxidation Reaction Rate, by M. G.
Slin'ko, 30 pp.

RUSSIAN, per, Khim Prom, No 3, 1956, pp 10-18.

AKC TT-922

Sci
Jun 61

156,080

Kasatkin, A. G., Dytnerskil, Yu. I., and
 Umarov, S. U.
 CALCUL DES COLONNES AVEC PLATEAUX A
 TROUS ET A GRILLES [K Raschetu Kolonn s
 Proval'nymi Tarelkami] [On the Computation of
 Columns with Running-Through Plates] tr. by
 Melnik. 28 Oct 59 [27] p. 32 refs. CEA Trans. no.
 R 767 (text in French).
 Order from OTS or SLA \$2.60 61-23741

Trans. in French of Khim[icheskaya] Promyshl[cennost']
 (USSR) 1958, no. 3, p. 38-45.

DESCRIPTORS: *Fractionation, *Distillation plants,
 Mixtures, Separation, Vapors, Liquids.

(Engineering--Chemical, TT, v. 6, no. 6)

61-23741

- I. Kasatkin, A. G.
- II. Dytnerskil, Yu. I.
- III. Umarov, S. U.
- IV. CEA-tr-R767
- V. Commissariat à
 l'Energie Atomique
 (France)

176670

Office of Technical Services

Apparatus for Continuous Flow Vulcanization
of Rubber Articles, by A. V. Kollegin,
N. V. Karopaltssev. UNCL

RUSSIAN, per, Khim Prom, No 3, 1958, pp 58, 59.

DSIR LIU RD3 1057

5s. Od.

Sci - Chem
Aug 59

94, 833

Tube Reactor for Continuous Polymerization in Emulsions,
by A. F. Kal~~aus~~, et al. UNCL

RUSSIAN, per, Khim, Prom, No 3, 1958, pp 133-138.

*DSIR/TCL 114

Sci - Chem; Phys
Mar 59

For the Rapid Development of the Chemical
Industry of the USSR, by G. V. Uvarov.

RUSSIAN, per, Kham Promy, No 4, 1958, pp 197-200.

C.S.I.R.O.

Sci-Chem

May 60

116, 222

Synthesis of Hexamethylene Diamine by
Catalytic Hydration of Adiponitrile in a Constant
Flow, by Z. S. Vanyushina, M. S. Vilesova,
G. A. Chistyakova, 12 pp.

RUSSIAN, per, Khim Prom, No 4, 1958, pp 205-208.

SLA 60-18386

Sol

Apr 61

146,206

Strizhevskiy, I. I.
PROPERTIES OF THE LIQUID AND SOLID ACETYLENE. [1960] 14p.
Order from LC or SLA ml\$2.40, ph\$3.30 60-16960

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1958, no. 4, p. 221-227.

(Chemistry--Organic, TT, v. 5, no. 3)

60-16960

1. Acetylenes--Properties
I. Strizhevskiy, I. I.

142,940

Office of Technical Services

Epoxide Lacquer Resins, by M. F. Sorokin.

RUSSIAN, per, Khim Prom, No 5, 1958, pp 54-60.

*ATIC F-TS-9851/III

Sci - Chem

Dec 58

Main Properties of Some Soviet Ion Exchangers,
by A. B. Pashkov. UNCL

RUSSIAN, per, Khim Prom, No 5, 1958,
pp 270-276.

ILLU
DSIR RTS 1340

~~(17s. 6a.)~~

Sci - Chem

Feb 60

108,359

The Protection of Damaged Places in the Enamel
of Apparatus by Means of an Acid-resistant Paste,
by G. A. Erovyants,

RUSSIAN, per, Krim Prom, 1958, No 5, pp 314.

ATS-58132R

Sci
Feb 60
Vol 2, No 9

107099

Melamine, Its Properties and Methods of Production,
by G. M. Kuznetsovskiy, Z. N. Shvetsova, 10 p.

RUSSIAN, per, Khim Prom, 1958, No 6, pp 325-330.

AKS-37K34R

Sci
Mar 60
Vol 2, No 11

109,575

Determination of the Optimum Temperature Conditions in Operating Catalytic Apparatus for the Oxidation of Sulfur Dioxide, by V. I. Shestakov, D. P. Terent'ev, 7pp.

RUSSIAN, per, Khim Prom, No 6, 1958, pp 350-354.

ATS RJ-1972 *in 23433R*

Sci - Chem

Jan 60

105762
RUSSIAN - to FRENCH
OTS 77-62-28210

Dehydrogenation of n-Butane in a Semiworks Unit
on a Moving Spherical Catalyst, by A. N. Bushin,
H. Ya. Soldatov, et al, 8 ppl

RUSSIAN, per, Khim Prom, No 7, 1958, pp 406-409.

ATS 52L3CR

Sci - Chem
Sep 59
Vol 2, No 2

98,041

(NY-3000).

A Method of Eliminating Surface Defects From
Ftoroplast-3 (Polytrifluorochloroethylene),
by T. N. Nikolayeva, V. G. Kuryatnikova, 1 p.

RUSSIAN, per, Khimicheskaya Promyshlennost',
No 8, Dec 1958, pp 47, 48.

(JPRS-1734-N

USSR
Econ - Technological - USSR Industry
Apr 59

The Rapid Rate of Development of the Chlorine
Industry in the Soviet Union, by V. G. Fleishman.
UNCL

RUSSIAN, per, Khim Prom, No 1, 1959, pp 9-16.

DSIR LIU RTE 1344

(LI. Os. Os.)

Sci - Chem

Mar 60

111,082

R-900

(BY-3000/2).

Some Problems in the Development of the Chemical
Industry of Kazakhstan, by K. T. Akhmetov, 10 pp.

RUSSIAN, per, Khim Prom, No 1, 1959, pp 24-28.

JPRS-1839-N

USSR

Econ - Technological - Industry

Aug 59

94,654

Plakidin, V. L. and Sheyn, S. M.
THE REACTION OF THE SODIUM SALT OF p-NAPHTHALENE SULFONIC ACID WITH SODIUM HYDROXIDE SOLUTION (Vzaimodeystviye Natriyevoy Soli p-Naftalinsul'fo-kisloty s Rastvorom Vedkogo Natra). Nov 60 [6]p. 7 refs. RTS 1593.
Order from LC or SLA mi\$1.80, ph\$1.80 61-13947

Trans. of Khimicheskaya Promyshlennost' (USSR) 1959, no. 3, p. 32-34.

A study is made of the kinetics of the reaction of 99.5% Na p-naphthalene sulfonate (purified by crystallization) with 20, 30, and 40% NaOH solutions at 300° to 390° and 100 to 200 atm (depending on temperature and concentration) to determine the optimum condition for continuous process. Results indicate the temperature to be the critical factor, the reaction rate to be directly proportional to the NaOH concentration, and the p-naphthal yield to be directly proportional to the excess of NaOH (10% excess and 30 to 40 minutes reaction time gave 90 to 95% yield).

61-13947

1. Naphthalene--Chemical reactions
2. Sodium salts--Chemical reactions
3. Sodium hydroxides--Chemical reactions

- I. Plakidin, V. L.
- II. Sheyn, S. M.
- III. RTS-1593
- IV. Department of Scientific and Industrial Research (Gr. Brit.)

Office of Technical Services

(Chemistry--Organic,
TT, v. 5, no. 12)

Methodes Industrielles de Production de l'Eau
 Lourde, (Industrial Methods for Production of
 Heavy Water), by N. M. Zhavoronkov, K. I. Vakodynskiy,
 70 pp.

RUSSIAN to FRENCH, per, Khim Prom, Vol III, 1959, ~~ppx 35~~
 pp 35-38.

Reverse Trans
 CEA Tr-R-1315

Sci
 Sep 61

The experimental automation of the production of
weak nitric acid, by L. V. Rashkovan, et al.
RUSSIAN, per, Khim. prom. , 1959,
No 1, pp 73-79
NIL 5828.4F (11992)

Sci - Chem Tech
May 67

325,838

Investigation of the Corrosion of ~~Reagents~~
for Carb on Disulphide, by V. A. Nikiforova.

RUSSIAN, per, Khim Prom, No 1, 1959, pp 79-87.

Language Sv Bu

DSIR LLH 11-1406 (LOAN)

Sci - ~~Ministry~~ Chem

SLF 60-17227

Oct 60

129,643-

Theory of the Fluidized Bed, by Ya. Boronok, D. Schol,
RUSSIAN, par, Ehim Prom, Vol XXXIV, No 1, 1959,
pp 62-68.

ATS RJ-2210

Sci + Chem

May 60

115,466

Prospects of the Realization of Radiation Chemical
Processes in the Chemical Industry, by M. A.
Proskurnin, 21 pp.

RUSSIAN, per, Khim Prom, No 2, 1959, pp 7-14.

AFIC MOL-586/III

Sci - Chem

Oct 60

128,486

The Reaction of the Sodium Salt of β -Naphthalene
Sulphonic Acid With Sodium Hydroxide Solution,
by Vl. L. Plakidin, S. M. Shein.

RUSSIAN, per, Khim Prom, No 3, 1959, pp 32-34.

ISIR LLU RTS 1593

Sci - Chem

128,864

Oct 60

S-495/60

(DC-4104)

Industrial Methods of Obtaining Heavy Water, by
N. M. Zhavoronkov, K. I. Sakodynskiy, 64 pp.

RUSSIAN, per, Khim Prom, No 3, 1959, pp 35-48.

JPRS 5064

Sci - Chem

Jul 60

121,451

Eighth Mendeleevian Congress on General and Applied
Chemistry, by H. M. Zhavoronkov, 24 pp. UNCL

RUSSIAN, per, Khim Prom, No 4, 1959, pp 1-10.

ATTC MCL-414/v

Sci - Chem

May 60

116,451

^D
Synthesis of Diisopropylbenzene Hydrogen Peroxide
and Testing its Initiating Properties in the
Process of Deriving SKB-30 A Butadiene-Styrene
Rubber, by V. P. Shatalov, Ye. M. Popova, et al,
9 pp. UNCL

RUSSIAN, per, Khim Prom, No 4, JUNE 1959, pp 13-
15.

Sci-Chem

ATIC MCL-414/V

May 60

116,453

Electrochemical Methods of Synthesizing Certain
Initial Materials for High Polymers, by V. G.
Khomyakov, M. Ya. Ploshin, A. P. Tmilov, 13 pp. N UNCL

RUSSIAN, per, Khim Prom, No 4, 1955,
pp 16-20.

ATTC MEL-411/V

Sci - Chem

May 60

116,454

Rogovin, Z. A. and Druzhinina, T. V.
**STUDY OF THE THERMAL STABILITY OF STEREO-
 REGULAR POLYPROPYLENES** (Issledovanie
 Termostoikosti Stereoregulyarnogo Polipropilena).
 [1961] [12]p. 5 refs.
 Order from OTS or SLA \$1.10 61-16597

Trans. of Khim[icheskaya] Promyshlennost' (USSR)
 1959, no. 4, p. 24-26.

DESCRIPTORS: Polymers, *Propenes, Stability,
 Antioxidants, Chemical reactions, Thermodynamics.

The thermal degradation of stereoregular polypropylene
 as well as of its amorphous and crystalline fractions
 and the change in their properties after the indicated
 treatment were investigated. The influence of the addi-
 tion of different antioxidants on the change in the rate
 of thermal degradation of stereoregular polypropylene
 was investigated. (Author)

(Chemistry--Organic, TT, v. 6, no. 7)

61-16597

I. Rogovin, Z. A.
 II. Druzhinina, T. V.

Office of Technical Services

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300830055-4

APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300830055-4

Golovanenko, V. I. and Kruzhalov, B. D.
SCIENTIFIC-INVESTIGATIONAL RESEARCHES OF
MEMBERS OF THE MENDELEEV VKhO. [1964] 8p
Order from K-H \$4.80 K-H-13077-b

Trans. of Khimicheskaya Promyshlennost' (USSR) 1959,
no. 4, p. 139-140.

(Research Methods, Techniques and Equipment, TT,
v. 12, no. 1)

TT-64-12847

- I. Golovanenko, V. I.
- II. Kruzhalov, B. D.
- III. K-H-13077-b
- IV. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Synthesis of Higher Fatty Acids and Alcohols
by Continuous Liquid-Phase Oxidation of Short-
Chain n-paraffins, by V. K. Tsynkovskiy.

RUSSIAN, per, Khim Prom, 1959, pp 207-215.

ATB 62M37R

Sci - Chem

Feb 61

138, 276

Vapor-Phase Catalytic Hydration of Propylene
to Isopropyl Alcohol, by M. A. Dalin,
V. M. Mamedova, A. S. Kasparov, 6 pp.

RUSSIAN, per, Khim Prom, No 5, 1959,
pp 385-387.

ATS-31M4OR

ATS-RJ-2393

188,863

Sci

Mar 62

Vol IV, No 2

S-491/60 :

(DC-4043).

Production of Metallic Potassium by the Vacuum-
Thermic Method, by A. Yu. Tayts, V. M. Chel'tsov,
10 pp.

RUSSIAN, per, Khim Prom, No 5, 1959, pp 404-408.

JPRS 3517

Sci - Min/Met
Jul 60

119,682

The Removal of SO_2 From Flue Gases in
a Bubbling Foam Absorber, by B. A. Chertkov.

RUSSIAN, per, Khim Prom, No 5, 1959,
pp 413-417.

CSIRO

Sci - Chem
Apr 62

191,430

The Explosion Dangers in Dinitro Compounds of
the Benzene Series, by I. F. ~~Bl~~ Blinov.

RUSSIAN, per, Khim Promyshlennost', 1959,
pp 419-425. 9203654

Sci - Chem

Mar 63

AEC/Tr 5528
OTS 62-26926 (RUSSIA to F.P. EXC 12)

226,583

The Speeds of Irregular Particles in Fluidised
Bed, by J. Beranek, et al.

RUSSIAN, per, Khim Prom, No 5, 1959, pp 430-435.

~~SECRET~~

Sci - Chem
Apr 60

OTS 62-18104

Yerofeyev, A. A. and Tyabin, N. V.
MIXING OF VISCOUS-PLASTIC DISPERSED SYS-
TEMS WITH THE AID OF A STIRRER. [1960] 10p.
Order from ATS \$15.60 ATS-17M46R

Trans. of Khim[icheskaya] Prom[yslennost'] (USSR)
1959, no. 5, p. 436-441.

147,124

(Engineering--Chemical, TT, v. 5, no. 5)

61-12289

1. Polymer solutions--
Viscosity
2. Colloids--Preparation
3. Stirrers--Applications
- I. Yerofeyev, A. A.
- II. Tyabin, N. V.
- III. ATS-17M46R
- IV. Associated Technical
Services, Inc.,
East Orange, N. J.

ATS/RJ-2986

Office of Technical Services

22

(NY-3959)

Development of the Chemical Industry in the
Bulgarian People's Republic, by N. Videnov,
7 pp.

RUSSIAN, per, Khim Prom, No 7, Oct/Nov 1959,
pp 86-88.

JPRS 5866

Sci - Chem

Oct 60

129,559

Khomyakov, V. G. and Tomilov, A. P.
EXAMPLES OF POSSIBLE APPLICATIONS OF ELECTROLYSIS OF ORGANIC COMPOUNDS IN INDUSTRY.
[1962] [16]p. 72 refs.
Order from OTS or SLA \$1.60

62-20371

Trans. of Khimicheskaya Promyshlennost' (USSR) 1959,
no. 7, p. 566-573.

DESCRIPTORS: *Electrolysis, *Organic compounds,
Industries, *Electrochemistry, Acetones, Anodes,
Cathodes, Chemical engineering.

Several processes are examined whose accomplishment by the electrochemical method is of interest to industry. These include oxidation, displacement and free radical formation at the anode, and reduction of multiple C-C bonds, reduction of functional groups, halogen displacement by hydrogen and formation of free radicals at the cathode.

(Chemistry--Physical, TT, v. 9, no. 10)

62-20371

I. Khomyakov, V. G.
II. Tomilov, A. P.

Office of Technical Services

61-27189

Trostyanskaya, E. B., Makarova, S. B., and
Tevlina, A. S.

CHLOROMETHYLATED COPOLYMERS OF VINYL
AROMATIC COMPOUNDS (Khlorometilirovanie
Sopolimerov Vinil'aromaticheskikh Soedinenii). July 61
[7]p. 11 refs. RTS 1802.
Order from OTS or SLA \$1.10

61-27189

Trans. of *Khimicheskaya Promyshlennost'* (USSR) 1959,
no. 7, p. 577-580.

DESCRIPTORS: *Chlorides, Methyl ethers, *Polymers,
*Styrenes, Chemical reactions, Copolymerization,
*Vinyl radicals.

Investigations show that the degree of cross-linking ob-
tained on the chloromethylation of linear styrene copoly-
mers diminishes with increasing content of aliphatic
(not chlormethyl) linkages in the chain. This is ex-
plained by the reduced probability of contact between
phenyl groups in neighbouring macromolecules.
(Chemistry--Organic, TT, v. 6, no. 6)

- I. Title: Chloromethylation
- I. Trostyanskaya, E. B.
- II. Makarova, S. B.
- III. Tevlina, A. S.
- IV. RTS-1802
- V. Department of Scientific
and Industrial Research
(Ot. Brit.)

176759

Office of Technical Services

The Influence of SO₂ Concentration in a Gas on Its
Rate of Absorption by Different Solvents, by
B. A. Chertkov.

RUSSIAN, per, Khim Prom, No 7, 1959, pp 586-591.

NLL RTE 2237

Sci -
Jul 63

238,170

61-27574

Kasatkin, A. G., Popov, D. M., and
Aksel'rod, Yu. V.
HEAT TRANSFER THROUGH THE SIDES OF A
SPIRAL TUBE UNDER BUBBLING CONDITIONS. [1961]
[5]p. 4 refs. Warren Spring Lab. Trans NT 808;
DSIR LLU M. 3030.
Order from OTS or SLA \$1.10

61-27574

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR).
1959, no. 7, p. 622-624.

DESCRIPTORS: Sulfur compounds, Oxides, Absorption,
*Bubbles, *Helixes, Copper tubing, *Heat transfer,
Ammonium radicals, Sulfites.

The heat transfer process was investigated by the
absorption of sulphur trioxide by monohydrate (98%
 H_2SO_4), producing standard oleum, and by absorption
of sulphur dioxide by a solution of ammonium sulphite-
(Physics--Thermodynamics, TT, v. 6, no. 9) (over)

I. Kasatkin, A. G.
II. Popov, D. M.
III. Aksel'rod, Yu. V.
IV. DSIR NT-808
V. DSIR LLU M. 3030
VI. Department of Scientific
and Industrial
Research (Gt. Brit.)

185598

Office of Technical Services

Basic Technological Characteristics of Apparata for
Conducting Radio-Chemical Processes (in Particular
for Polymerization of Ethylene) on an Industrial
Scale, by N.P. Syrkus, A. Kh. Bfeger, B.I. Vaynsteyn.

RUSSIAN, per, Khim Prom, No 8, 1959, pp 647-652.
9661794.

ATLC MCL 664/v

Sci - Chem
Jun 61

155, 536

Production of Foamy Polystyrene With The Aid of
Saturated Low-Boiling Hydrocarbons, by
V.M. Negyshnevskiy, G.M. Sinayskiy.

RUSSIAN, per, Khim Prom, No 8, 1959, pp 672-674.
9661794.

ATIC MKL 664/V

Sci - Chem
Jun 61

155,527

The Hydrothermal Process for Fluorine
Removal From Natural Phosphates in a
Cyclone Furnace, by S. I. Vol'fkovich,
11 pp.

RUSSIAN, per, Khim Prom, No 8,
1959, pp 674-680.

ATB-83M42R

Sci
Vol IV, No 9
Mar 62

187, 024

TT- 62-26546

Cherepkov, I.F.
ÉCHANGE D'EXPERIENCES. ÉLASTICITÉ DES VA-
PEURS DE HNO₃ AU-DESSUS DES SOLUTIONS RÉCI-
PROQUES DES ACIDES NITRIQUES ET SULFURIQUES
(The Vapor Pressure of HNO₃ Above the Solutions of
Nitric and Sulfuric Acids). 7p. CNRS-VIII bis 624.
Order from OTS, ETC or CNRS 51.10 TT-62-26546

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1959, no.8, p.708-709.

DESCRIPTORS: *Nitric acid, *Sulfuric acid, Physical
chemistry, Vapors, Elasticity.

(Chemistry--Physical, TT, v. 11, no. 9)

- I. Cherepkov, I.F.
- II. CNRS-VIII bis 624
- III. Centre National de la Recher-
che Scientifique, Paris

Office of Technical Services
European Translations Centre

Index of ~~Material Printed in Chemical Industry During~~
1959. UNCLASSIFIED

RUSSIAN, per, Khim Prom, No 8, 1959, pp 721-738.

*ATIC MCL-664/V

Sci - Chemistry
23 Jun 60

IC 41144

62-24451

Vol'fkovich, S. I., Margolis, F. G., and Polyakov, N. N.

COMPLEX FERTILIZERS CONSISTING OF NITRIC ACID AND NATURALLY OCCURRING PHOSPHATES (COMPLEX FERTILIZERS BY DECOMPOSITION OF PHOSPHATE WITH NITRIC ACID) tr. by Bertha P. Klenova. 14 Dec 60, 16p. 43 refs. TVA-3881. Order from OTS or SLA \$1.60 62-24451

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR) 1960, no. 1, p. 34-41.

DESCRIPTORS: *Fertilizers, Production, Nitric acid, *Phosphates, Decomposition, Calcium compounds, Nitrates, Carbonates, Ammonium compounds, Sulfates.

(Engineering--Chemical, TT, v. 9, no. 2)

- I. Vol'fkovich, S. I.
- II. Margolis, F. G.
- III. Polyakov, N. N.
- IV. TVA-3881
- V. Tennessee Valley Authority, Wilson Dam, Ala.

Office of Technical Services

(SF-1331)

Industrial Water Desalination, by V. P. Malashko,
11 pp.

RUSSIAN, per, Khim Prom, No 1, Jan/Feb 1960,
pp 41-44.

JPRS 4350

Sci - Geophys

Feb 61

139, 260

Distribution of Current Density and Voltage with
Anode Depth in a Vertical Diaphragm Chlorine Cell,
by A.T. Kolotukhin, E.V. Mulin.
RUSSIAN, per, Khim.Prom, 1960, pp 43-47.
GB/39/GCD.1840 1

Sci -
July 1967

334-045

On the Acceleration of the Decomposition of
Sodium Amalgam, by G. I. Volkov, V. A.
Grinevich.

RUSSIAN, per, Khim Prom, No 1, 1960, pp 58-59.

MLL RTS 2061

Sci - Chem

Aug 62

207,385

Chemical Means of Protecting Nonmetallic Materials
from Attack by Microorganisms, by N. N. Mel'nikov,
I. L. Vladimirova.
RUSSIAN, per, Khim Prom, No 1, 1960, pp 81-85.
AFM/FSTC/HT-23-034-69

Sci-Chem
July 69

384,688

Fridshteyn, I. L., Podol'skaya, P. I. and others.
ONE-STAGE METHOD FOR PREPARING ISOPRENE
FROM ISOPENTANE AND ISOPENTANE-ISOAMYL-
ENE MIXTURES. [1960] 13p.
Order from ATS \$15.75

ATS-78M46R

Trans. of Khim[ischekaya]Prom[yahlennoy] (USSR)
1960, no. 2, p. 89-93.

146,955

(Chemistry--Organic, TT, v. 5, no. 5)

61-12290

- I. Isoprene--Synthesis
- I. Fridshteyn, I. L.
- II. Podol'skaya, P. I.
- III. ATS-78M46R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

K-H 10424

Office of Technical Services

62-26475

Amelin, A. G.
RÉGIME LE PLUS FAVORABLE POUR PURIFIER LES
GAZ DE GRILLAGE (Optimum Conditions for the Purifi-
cation of Roaster Gas for Sulfuric Acid Production).
10p. 9 refs. FR-1528.
Order from OTS, ETC or CNRS \$0.80 62-26475

Trans. in French of Khimicheskaya Promyshlennost'
SSSR, 1960, no. 2, p. 116-126.

DESCRIPTORS: *Sulfuric acid, Production, *Combustion
chamber gases, Aerosols, Purification, Heat ex-
changers, Humidity.

(Engineering--Chemical, TT, v. 10, no. 8)

I. Amelin, A. G.
II. F/R-1528
III. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Fokin, A. V. and Kosyrev, Yu. M.
PYROLYSIS OF FLUOROHYDROCARBONS. [1961]
[23]p. (8 figs. 2 tables equations omitted) 8 refs.
Order from OTS or SLA \$2.60 62-10367

Trans. of Khimicheskaya Promyshlennost' (USSR)
1960, no. 3, p. 186-192.

DESCRIPTORS: *Hydrocarbons, *Fluorides,
Ethylenes, Propenes, Butanes, Butenes, Pyrolysis.

(Chemistry--Physical, TT, v. 7, no. 9)

62-10367

I. Fokin, A. V.
II. Kosyrev, Yu. M.

Office of Technical Services

The Calculation of Catalytic Processes in Industrial
Reactors, by G. K. Borekov, M. G. Slin'ko.

RUSSIAN, per, Khim Prom, No 3, 1960, pp 193-201.

ELL RFS 1883

OTS 61-27782

Sci - Chem

Mar 62

188,932

Use of Graphite in Chemical Apparatus, by Y. Moldavan.

RUSSIAN, per, Khim Prom, No 3, 1960, pp 251-254.

*U.K. Atomic Energy Authority
Risley, TRG Inf Ser 103(C)

Sci - Chem
Jul 62

61-12286

Furman, M. S., Gol'dman, A. M. and others.
CONTINUOUS CATALYTIC OXIDATION OF CYCLO-
HEXANE WITH AIR UNDER PRESSURE. [1960] 12p.
Order from ATS \$19.65 ATS-24M47R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 4, p. 265-272.

146,957

1. Cyclohexanes--Oxidation
2. Air--Catalytic properties
3. Catalysts--Effectiveness
- I. Furman, M. S.
- II. Gol'dman, A. M.
- III. ATS-24M47R
- IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/RT-2989

Office of Technical Services

(Chemistry--Physical, TT, v. 5, no. 5)

70-13451-07A

Tsyskovskii, V. K.; Levina, M. I.; Freidin, B. G.

SYNTHESIS OF DIBASIC ACIDS BY DIRECT AIR

OXIDATION OF LIQUID PARAFFINS. Khimicheskaya

Promyshlennost, v. 36, n. 4, p. 272-274, 1960.

Order from NTC as 70-13451-07A: HC \$ 6.70, MF \$ 5.80.

Ioffe, L. I. and Pis'men, L. M.
A STATISTICAL METHOD FOR THE ANALYSIS OF
MACROKINETIC PROCESSES IN A FLUIDIZED
CATALYST BED. [1961] 13p.
Order from ATS \$16.85

ATS-08M46R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 4, p. 287-293.

DESCRIPTORS: *Catalysts, *Fluidized solids,
Statistical analysis, Reaction kinetics.

(Chemistry--Physical TT, v. 6, no. 4)

61-22211

I. Ioffe, L. L.
II. Pis'men, L. M.
III. ATS-08M46R
IV. Associated Technical Serv-
ices, Inc., East Orange,
N. J.

ATS/RJ-2942

177696

Office of Technical Services

Berlin, A. A.
SYNTHESIS AND PROPERTIES OF POLYMERS WITH
SYSTEMS OF CONJUGATED BONDS. 7 Nov 60, 1p.
AID rept. 60-91; AD-246 710.
Order from LC or SLA ml\$1.80, ph\$1.80 61-13989

Abstract trans. of Khimicheskaya Promyshlennost'
(USSR) 1960, no. 5, p. 23-30.

143,341

(Materials--Plastics, TT, v. 5, no. 4)

61-13989

1. Polymers--Synthesis
2. Polymers--Properties
3. Polymers--Molecular structure

4. Plastics--Development

- I. Berlin, A. A.
- II. AID-60-81
- III. Air Information Div.,
Washington, D. C.
- IV. AD-246 710

Office of Technical Services

AN I--X DIAGRAM FOR A WATER VAPOR--HHYDROGEN SYSTEM,
BY ANATOL SELECKIALEKSANDER BLUM, 7 PP.

RUSSIAN, PER, KHIM PROM, NO 5, 1960, PP 59-61.
9678386

FTD-TT-62-1052

SCI - CHEM
11 OCT 62

212,377

(NY-5504)

Synthesis and Properties of Polymers With Systems of
Conjugated Bonds, by A.A. Berlin.

RUSSIAN, per, Khimicheskaya Promishlennost', No 5,
1960, pp 375-382.

JPRS 7475

Sci - Phys

May 61

154,362

62-34230

Tsiklis, D. S., Kulikova, A. I., and Shenderet, L. I.
PHASE EQUILIBRIA IN THE SYSTEM ETHANOL-
ETHYLENE-WATER AT HIGH PRESSURES AND
TEMPERATURES. [1962] 10p.
Order from ATS \$14.50

ATS-36P62R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 5, [p. 401-406].

DESCRIPTORS: *Ethanol, *Ethylene, Water, Phase
studies, Thermodynamics, High pressure research,
High temperature research.

(Chemistry--Physical, TT, v. 9, no. 3)

I. Tsiklis, D. S.
II. Kulikova, A. I.
III. Shenderet, L. I.
IV. ATS-36P62R
V. Associated Technical
Services, Inc., East
Orange, N. J.

Office of Technical Services

Diagram I-x For a Steam-Hydrogen System,
by Anatol Seletsky and Aleksander Blyum,
6 pp.

RUSSIAN, per, Khim Prom, No 5, 1960, pp 411-413.
9690554

DDC RSIC-106

Sci - Chem
Jan 64

248,845

Empirical Equations of Equilibrium Distribution for
a Liquid-Liquid System, by A. G. Kasatkin, S. L.
Kagan, V. G. Trukhanov, 13 pp.

RUSSIAN; per, Khim Prom, No 6, 1960, pp 50-54.

CIA/FIN XX-1116

NOT RELEASABLE TO FOREIGN NATIONALS

Sci

Mar 62

USIB INTERNAL USE ONLY

NLH M 8952 (leak.)
185, 952

Berlin, A. A.
SYNTHESIS AND PROPERTIES OF POLYMERS WITH
A SYSTEM OF CONJUGATED BONDS. [1961] 15p.
Order from ATS \$21.90 ATS-70N49R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 6, p. 444-452.

DESCRIPTORS: *Polymers, Chemical bonds,
Synthesis, Properties.

(Chemistry--Organic, TT, v. 6, no. 7)

61-25198

I. Berlin, A. A.
II. ATS-70N49R
III. Associated Technical
Services, Inc., East
Orange, N. J.

ATS/RJ-3005

101024

Office of Technical Services

Experience in the Application of Radioactive
Level Measuring and Indicating Apparatus, by M
M. A. Vekaler.

RUSSIAN, per, Khim. Prom, No 6, 1960, pp 483-487.

NLL M 8880

Sci - Engr
Mar 63

223,698

Kasatkin, A. G., Kagan, S. Z., and Trukhanov, V. G.
EMPIRICAL EQUATIONS OF EQUILIBRIUM DISTRIBUTION FOR A LIQUID-LIQUID SYSTEM [1962]
[14]p. 13 refs.
Order from OTS or SLA \$1.60 62 10969

Trans. of Khimicheskaya Promyshlennost' (USSR) 1960, no. 6 [p. 484-492].

DESCRIPTORS: *Liquids, *Chemical equilibrium, Equations, Phase studies, *Solvent extraction, Organic solvents.

(Chemistry--Physical, TT, v. 8, no. 4)

62-10969

I. Kasatkin, A. G.
II. Kagan, S. Z.
III. Trukhanov, V. G.

62-14323

Office of Technical Services

Comparing the Effectiveness of Extraction by Means
of Pulse Packed Columns With Continuous Aqueous and
Organic Phases, by S. M. Karpachova, E. P. Rodionov,
G. M. Popova, 9 pp.

RUSSIAN, per, Khim Prom, No 6, 1960, pp 496-499.

CIA/FDD XX-1090

NOT RELEASABLE TO FOREIGN NATIONALS

Sci - Chem

OTS 62-10985

178,514

Jan 62

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NAL M8950

Berkman, B. E.
SELECTION OF A PHENOL MANUFACTURING
PROCESS. [1961] 6p.
Order from ATS \$11. 25 ATS-04N55R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 7, p. 26-28.

DESCRIPTORS: *Phenols, Manufacturing methods.

(Engineering--Chemical, TT, v. 6, no. 11)

61-25550

- I. Berkman, B. E.
- II. ATS-04N55R
- III. Associated Technical
Services, Inc., East
Orange, N. J.

61-25550

Office of Technical Services

62-12664

Lubyanskii, I. Ya., Minati, R. V., and Furman, M. S.
OXIDATION OF CYCLOHEXANOL AND CYCLO-
HEXANONE WITH NITRIC ACID UNDER PRESSURE:
OXIDATION OF CYCLOHEXANOL WITH NITRIC
ACID UNDER PRESSURE IN THE PRESENCE OF A
CATALYST. [1961] 16p.
Order from ATS \$27.50 ATS-48N58R

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 7, p. 529-537.

DESCRIPTORS: *Cyclohexanols, *Cyclohexanones,
Oxidation, Nitric acid, Pressure, Catalysts.

(Chemistry--Organic, TT, v. 7, no. 10)

I. Lubyanskii, I. Ya.
II. Minati, R. V.
III. Furman, M. S.
IV. ATS-48N58R
V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

The Preparation of 5/6 Aluminum Oxychloride and
the Prospects of its Industrial Utilization,
by E. A. Levitskii.
RUSSIAN, per, Khimicheskaya Promyshlennost,
No 7, 1960, pp 557-558.
NTC 71-13913-07B

Feb 72

(SF-1585)

International Symposium on Macromolecules, by M. I.
Rokhlin, 7 pp.

RUSSIAN, per, Khim Promyshlennost', No 7, Oct/Nov 1960,
pp 613-614.

JPBS 449a

Sci - Chem

Apr 61

147,281

Technical Progress and Economics in the Soviet
Nitrogen Industry, by N. A. Simulin, 11 pp.

RUSSIAN, per, Khim Prom, No 8, Dec 1960, pp 1-5.

CIA/FDD X-4867

USSR

Econ

Apr 62

192,174

Kinetic Relationships in the Reaction of
Olefins With Sulfuric Acid, by M. S. Menko-
sov.

RUSSIAN, per, Khim Prom, No 8, 1960, pp 15-23.

ATS RJ-3967

Sci-Chem
Dec 63

244,862

Gol'dberg, N. A. and Zagranichnyi, V. I.
A CONTINUOUS METHOD FOR THE PRODUCTION
OF MELAMINE FROM DICYANDIAMIDE. 13 June 61,
9p. 6 refs. 61-18705
Order from OTS or SLA \$1.10

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, p. 624-626.

DESCRIPTORS: *Melamine, Production, *Cyanamides,
Calcium compounds, Chemical reactions, *Amides.

The starting material for the method is dicyandiamide,
prepared from calcium cyanamide.

(Chemistry--Organic, TT, v. 6, no. 10)

61-18705

I. Gol'dberg, N. A.
II. Zagranichnyi, V. I.

167280

Office of Technical Services

Efremova, G. D. and Leont'eva, G. G.
THE SOLUBILITY OF MELAMINE IN SOLUTIONS
OF DICYANDIAMIDE IN LIQUID AMMONIA. [1961]
[5]p. 3 refs.
Order from OTS or SLA \$1.10 62-10248

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960 [no. 8] p. 626-627.

DESCRIPTORS: *Melamine, Solubility, Heat of
solution, *Ammonia, *Cyanamides.

Experiments showed that the solubility of melamine
depends on the concentration of dicyandiamide in
liquid ammonia. The fact that the solubility of
melamine in solutions of dicyandiamide in liquid
ammonia can increase or decrease with increasing
temperature, depending on the concentration of di-
cycandiamide in the solution, indicates that the heat of
solution changes sign as the concentration of di-
cycandiamide in the solution increases.
(Chemistry--Physical, TT, v. 8, no. 10)

62-10248

I. Efremova, G. D.
II. Leont'eva, G. G.

Office of Technical Services

62-22192

Nemtsov, M. S.
KINETIC RELATIONSHIPS IN THE REACTION OF
OLEFINS WITH SULFURIC ACID [Kineticheskie
Zakonomernosti Vzaimodelstviya Olefinov s Sernoi
Kislotoi]. Oct 61, 11p. 21 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1960, no. 8 [p. 633-641].

DESCRIPTORS: *Chemical engineering, *Propenes,
Chemical reactions, Adsorption, Reaction kinetics,
*Sulfuric acid.

(Chemistry--Physical, TT, v. 9, no. 4)

I. Nemtsov, M. S.
II. International Chemical
Engineering, New York

Office of Technical Services

63-16233

Tsyskovskii, V. K., Bocharov, A. A., and Sasin,
E. M.
SYNTHESIS OF OXY ACIDS AND THEIR DERIVATIVES
BY CONTINUOUS OXIDATION OF LIQUID PARAFFINS.
[1963] Sp. (figs. omitted) 6 refs.
Order from OTS or SLA \$1.10

63-16233

Trans. of [Khimicheskaya Promyshlennost' (USSR) 1960,
no. 8, p. 642-643].

DESCRIPTORS: *Organic acids, Oxidation, Synthesis
(Chemistry), Oxides, Carboxylic acids, Ketones

(Chemistry--Organic, TT, v. 10, no. 11)

I. Tsyskovskii, V. K.
II. Bocharov, A. A.
III. Sasin, E. M.

ALSO
SLA TT-66 10619

Office of Technical Services

62-10666

Sorokin, M. F., Angarskaya, E. Ya., and Shuvalova, A. N.

THE MECHANISM OF FORMATION OF EPOXY RESINS FROM EPICHLOROHYDRIN AND BIS(HYDROXYPHENOL) PROPANE. [1961] [20]p. 11 refs.
Order from OTS or SLA \$1.60 62-10666

Trans. of Khimicheskaya Promyshlennost' (USSR) 1960, no. 8, p. 643-652.

DESCRIPTORS: *Epoxy resins, *Halohydrins, Phenols, *Propanes, Ethers, Glycerols, Hydrolysis, Synthesis.

Epoxy resins with increased softening temperatures can be obtained by the method of direct condensation, not resorting to the fusion method. Resins with higher softening temperatures have been obtained (with a molar ratio of epichlorohydrin to bis(hydroxyphenyl) propane from 1.5:1 to 1.1:1) by the method in which epichloro- (Chemistry--Organic, TT, v. 8, no. 7) (over)

I. Sorokin, M. F.
II. Angarskaya, E. Ya.
III. Shuvalova, A. N.

Office of Technical Services

Furman, M. S., Shestakova, A. D. and others.
OXIDATION OF n-BUTANE IN THE LIQUID PHASE
UNDER PRESSURE. Oct 61, 6p. 18 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 1, p. 6-11.

DESCRIPTORS: *Butanes, Oxidation, *Acetic acids,
Ketones, Acetates.

(Chemistry--Organic, TT, v. 8, no. 8)

62-22200

- I. Furman, M. S.
- II. Shestakova, A. D.
- III. International Chemical
Engineering, New York

Office of Technical Services

Khmel'nitzkaya, I. L., Gutorko, L. I. and others.
TECHNOLOGIE DE LA PREPARATION DES TOLUENE-
DIISOCYANATES (Preparation of Toluene-di-isocyan-
ates). 7p. 6 refs. FR-1956.
Order from OTS, ETC or CNRS \$0.80 62-26438

Trans. in French of Khimicheskaya Promyshlennost'
(USSR) 1961, no. 1, p. 18-21.

DESCRIPTORS: *Toluenes, *Isocyanic acids, Amines,
Preparation.

(Chemistry--Organic, TT, v. 10, no. 8)

62-26438

I. Title: Toluene-diiso-
cyanates

I. Khmel'nitzkaya, I. L.

II. Gutorko, A. V.

III. F/R-1956

IV. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

62-26454

Mukhlenov, I. P., Traber, D. G. and others.
OXYDATION DU SO₂ DANS UN REACTEUR A CATALYSEUR FLUIDIFIE (Oxidation of Sulfurous Gas in an Apparatus with a Fluidized Catalyst Bed). 10p.
18 refs. FR-1737.
Order from OTS, ETC or CNRS \$0.80 62-26454

Trans. in French of Khimicheskaya Promyshlennost' (USSR) 1961, no. 1, p. 42-46.

DESCRIPTORS: *Sulfuric acid, Production, *Catalysts, *Vanadium, Processing, Fluidized solids.

(Engineering--Chemical, TT, v. 10, no. 8)

- I. Mukhlenov, I. P.
- II. Traber, D. G.
- III. F/R-1737
- IV. Centre National de la Recherche Scientifique, Paris (France)

Office of Technical Services

Gel'perin, N. I. and Kvasha, V. B.
MAINTAINING OPTIMUM TEMPERATURE CONDI-
TIONS IN CHEMICAL REACTORS. Oct 61, 6p.
5 refs.
Order from ICE in v. 1, no. 1, \$15.00/year

Trans. of Khim[icheskaya] Prom[yshlennost'] (USSR)
1961, no. 1, p. 51-56.

DESCRIPTORS: *Towers (Chemistry), Rectifiers,
Distilling plants, *Heat exchangers, Temperature.

(Engineering--Chemical, TT, v. 8, no. 8)

62-22198

I. Gel'perin, N. I.
II. Kvasha, V. B.
III. International Chemical
Engineering, New York

Office of Technical Services

(SF-1879)

All-Union Conference on Ultrasonics, by V. M.
Patakevich, 4 pp.

RUSSIAN, per, Khia Prom, No 1, 1961, pp 72-73.

Sci - Engr.

Sep 61

JPRS 4900520

166, ~~259~~

FTD-TT-63-116

(9689793)

(SF-1879)

Several Problems of the Technology of the Catalytic
Production of Liquid Parahydrogen, by R. A. Buyanov,
A. G. Zel'dovich, Yu. K. Pilipenko, 10 pp.

RUSSIAN, per, Khim Prom, No 2, 1961, pp 31-34.

JPRS 10385

Sci - Chem

174,039

Nov 61

(SF-1879)

All-Union Inter-VUZ Conference on the Theory and Practice of Rectification in the Chemical and the Food Industries, by P. Tsygankov, 9 pp.

RUSSIAN, per, Khim Promyshlennost', No 2, 1961, pp 70-73.

JPRS 10377

USSR

172, 011

Econ

Oct 61

Some Problems of the Technology of Catalytic
Production of Liquid Para-Hydrogen, by
R. A. Buzanov, A. G. Zel'dovich,
Yu. K. Filipenko, 12 pp.

RUSSIAN, per, Khim Proa, No 2, 195
No 2, 1961, pp 105-108. 9673086

FID-TT-61-192

Sci - Chem

182,599

15 Feb 62

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APPROVED FOR RELEASE: Thursday, December 13, 2001 CIA-RDP84-00581R000300830055-4

62-33740

Zelinskii, Yu. G. and Kafarov, V. V.
LES RÉGIMES HYDRODYNAMIQUES SUR UN
PLATEAU CREUX (Gidrodinamicheskie Rezhimy na
Proval'noi Tarelke) [Hydrodynamic Conditions on
Open-Grid (Turbogrid) Trays] tr. by de Trezvinsky.
19 Apr 62 [22]p. (Russian text included) 25 refs. CEA
Trans. no. R 1609 (text in French).
Order from OTS or SLA \$2.60

62-33740

Trans. in French of Khim[icheskaya] Promyshl[ennost']
(USSR) 1961, no. 2, p. 122-125.
A trans. is available in English from ICE in v. 1,
no. 1, \$15.00/year.

DESCRIPTORS: Metal plates, *Hydrodynamics, Re-
sistance, Bubbles, Oscillation, Towers (Chemistry).

(Engineering--Chemical, TT, v. 9, no. 8)

- I. Zelinskii, Yu. G.
- II. Kafarov, V. V.
- III. CEA- α -R1609
- IV. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services